GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW FIRE STATION TRAFFIC SIGNAL AT THE INTERSECTION OF MD 170 AT THE SEVERN FIRE STATION IN ANNE ARUNDEL COUNTY. MD 170 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

INTERSECTION OPERATION

A CONTROLLER HOUSED IN A BASE MOUNTED CABINET SHALL BE INSTALLED AT THIS LOCATION. THE SIGNAL HEADS FACING MD 170 WILL CHANGE FROM FLASHING YELLOW TO A QUICK FLASHING YELLOW IN THE 8 INCH SIGNAL HEAD TO SOLID YELLOW TO SOLID RED UPON THE ACTIVATION OF THE PRE-EMPTION PHASE VIA THE PUSH BUTTON. THE SIGNAL HEADS FACING THE FIRE STATION WILL CHANGE FROM FLASHING RED TO FLASHING YELLOW UPON THE ACTIVATION OF THE PRE-EMPTION PHASE VIA THE PUSH BUTTON. ONE PUSHBUTTON INSIDE THE FIRE STATION WILL ACTIVATE THE PRE-EMPTION PHASE. A SECOND PUSHBUTTON INSIDE THE FIRE STATION WILL ACTIVATE THE PRE-EMPTION PHASE AND A PRE-EMPTION PHASE AT THE MD 170 AT MD 174 TRAFFIC SIGNAL. THE FIRE STATION TRAFFIC SIGNAL AND THE MD 170 AT MD 174 TRAFFIC SIGNAL WILL BE INTERCONNECTED. SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MS. KIMBERLY TRAN. ASSISTANT DISTRICT ENGINEER - TRAFFIC PHONE: (410) 841-1019 MR. MARK COBLENTZ, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION PHONE: (410) 841-1031 MR. CHUCK E. GEORGE, ASSISTANT DISTRICT ENGINEER - MAINTENANCE PHONE: (410) 841-1013 MR. JOHN S. MAYS, UTILITY ENGINEER PHONE: (410) 841-1039 MR. RICHARD DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION PHONE: (410) 787-7630

THE POWER COMPANY REPRESENTATIVE IS: MR. DOUGLAS SHENTON PHONE (410) 859-9448 7317 PARKWAY DRIVE, SOUTH HANOVER, MD 21076

- 2. MAINTENANCE OF TRAFFIC WILL BE HANDLED BY THE CONTRACTOR UTILIZING THE FOLLOWING STANDARD PLATES FOR TRAFFIC CONTROL: 104.00.01 TO 104.01.64, 104.02.01, 104.02.09.
- 3. THE SIGNAL CONTROLLER AND CABINET MUST BE DELIVERED TO THE MDSHA SIGNAL SHOP FOR WIRING AND TESTING. CONTACT MR. ED RODENHIZER (410) 787-7650.

EQUIPMENT LIST

DESCRIPTION

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

CATEGORY CODE NO.

UNITS QUANTITY

NONE

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

CATEGORY CODE NO.	DESCRIPTION	UNITS	QUANTITY	
120500 120625 130850 203030	MAINTENANCE OF TRAFFIC TEMPORARY TRAFFIC SIGNS HIGH PERFORMANCE WIDE ANGLE RETROREFLECTIVE SHEETING MOBILIZATION TEST PIT EXCAVATION	LS SF LS CY	1 128 1 4	
 585624 800000 800000 800000	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS EIGHT PHASE (FULLY ACTUATED) TRAFFIC CONTROLLER FURNISH AND INSTALL PUSH BUTTON FIREHOUSE PRE-EMPTION 8" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION LED 2 CIRCUIT FLASHER	LF EA EA	40 1 2	•
800000 800000 800000	2 CIRCUIT FLASHER CABINET "G" TYPE POLE MOUNT FURNISH AND INSTALL 1 CONDUCTOR ELECTRICAL CABLE FOR ELECTRICAL SERVICE (NO. 8 AWG	EA EA	1 1 60	
801004 801104 801605	CONCRETE FOR SIGNAL FOUNDATION WOOD SIGN SUPPORTS 4 INCH X 4 INCH SHEET ALUMINUM SIGNS	CY LF SF	13 35 54	
802501 805115 805118 805135	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE 3" SCHEDULE 80 RIGID PVC CONDUIT -BORED 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED	LF LF LF	.820 100 85 1,115	5
805140 807202 811001 816110	4" SCHEDULE 80 RIGID PVC CONDUIT -TRENCHED METERED SERVICE PEDESTAL FURNISH AND INSTALL ELECTRICAL HANDHOLE TRAFFIC SIGNAL CABINET NEMA SIZE 6	EA EA EA	20 1 9 1	
818006 818021 818041 822002	20 FOOT BREAKAWAY PEDESTAL POLE 27 FOOT STEEL POLE WITH TWIN 50 FOOT MAST ARM 27 FOOT STEEL POLE WITH A SINGLE 60-FOOT MAST ARM 12-PAIR COMMUNICATION CABLE, JELLYFILLED (UNDERGROUND)	EA EA	1 1 1 1,700	0
 822500 831010 837001	AS-BUILT FOR TRAFFIC SIGNAL 250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE GROUND ROD - 3/4 INCH DIAMETER X 10-FOOT LENGTH	EA EA EA	1 2 3	<i>.</i>
860284 861103 861105 861106	12" LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION ELECTRICAL CABLE - 3 CONDUCTOR (NO. 12 AWG) ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE- 3 CONDUCTOR (NO. 14 AWG)	EA LF LF	14 32 1,100 30	O
861107 861116 866104	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) 20 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	LF LF EA	750 350 2	

C. EQUIPMENT TO BE SALVAGED

CATEGORY CODE NO. DESCRIPTION

QUANTITY

NONE

WIRING DIAGRAM

Q} - 3-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)

A,B,C,D,E,F} - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

R.S} - 3-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

G - STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)

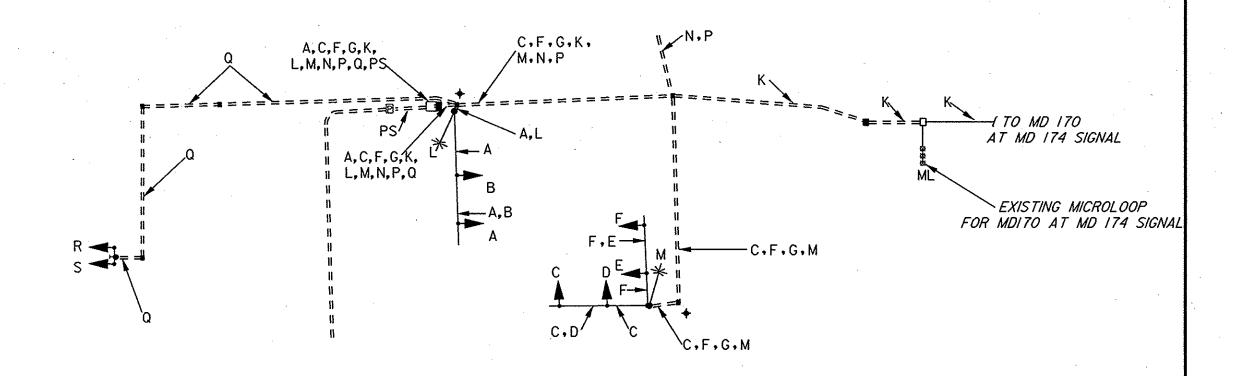
K } - 12 PAIR JELLY FILLED INTERCONNECT CABLE

L,M } - 2 CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.)

N.P} - 2 CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)

PS } - POWER FEED CABLES

+ } - GROUND ROD



PHASE CHART

 (\mathfrak{A}) (\mathfrak{A}) (\mathfrak{A})

NORMAL OPERATION	DARK	DARK	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	
PRE-EMPTION WARNING	FLY	FL/Y	1	QUICK FL/Y 8"	QUICK FL/Y 8"		R	R	+
WARNING CHANGE	FL/Y	FL/Y	Υ	Υ	Υ	Υ	R	R'	
PRE-EMPTION	FL/Y	FL/Y	R.	R	R	R	FLY	FL/Y	
PRE-EMPTION CHANGE	FL/Y	FL/Y	R	R.	R	R	Y	Υ	+ \\



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION SEVERN FIRE STATION

AT MD 170



TECHNOLOGIES INC. NGINEERS AND PLANNERS 10 NORTH PARK DRIVE HUNT VALLEY, MARYLAND 21030-1888

GENERAL INFORMATION REVISIONS SCALE _____1" = 20' DATE _____1032005 ____ CONTRACT_NQ. NONE COUNTY ____ DESIGNED BY LOGMILE T.I.M.S. NO. TOD NO. SHEET NO. 2 OF 3 DRAWING NO.

PLOTTED: "09:41 AM on Friday, September 30, 2005" FILE: M:\2001\0101067.t\drawings\pSG-N000_H233.dgn